BOOK OF ABSTRACTS

International Conference
CARDIOVASCULAR DISEASES
CVD-IA
Integrated Approach From Basic, Clinical Science, Public Health and Bioethics

Yogyakarta, May 14-17, 2016

Abdul Kahar Muzakkir, Conference Hall
Universitas Islam Indonesia, Yogyakarta
UII Main Campus, Jl. Kalirang KM 14.5 Sleman Yogyakarta
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INTERNATIONAL CONFERENCE
CARDIOVASCULAR DISEASES
Integrated Approach from Basic, Clinical Science, Public Health and Bioethics

Editor
Rahma Yuantari
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PROFILE OF CKMB AND TROPONIN I
EXAMINATIONS IN PATIENTS WITH CHEST PAIN
COMPLAINTS

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Background:
Chest pain was chief complaints in emergency department. This complaints
could be caused by cardiac or non cardiac. Cardiac cause could be ACS (acute
coronary syndrome) thus cardiac enzyme assay is mandatory to exclude cardiac
cause in patients with chest pain. The most ordered cardiac enzyme assay are
CKMB (Creatinin Kinase MB) and Troponin I. The aim of this study is to know how
both assay ordered and how much inter-rater agreement in positive results in
patients with chest pain complaints.

Method:
This study using observative cross sectional design. Subject population in
this study were all patients with chest pain complaints who came to JIH hospital
in 2014-2015 who ordered CKMB and Troponin I assays by emergency unit doctor.
2 x 2 table was used to measure weight kappa coefficient.

Results:
116 subject followed this study, 81 patients did CKMB assay followed by
Troponin I assay. 9 patients did CKMB assay only and 25 patients did Troponin I
assay only. 74 patients were positive in CKMB assay with median 421 (1-25019), 43
patients were positive in Troponin I assay with median 38 (2-1635). 2 x 2 table
showed that 43 patients/53% were positive in both assay, 7 patients/8.64% were
negative in both assay. 31 patients/38.27% were positive in either assay. Weighted
Kappa coefficient for this study was 0.913.

Conclusions:
CKMB and Troponin I were measured in almost all patients with chest pain
complaint. There was almost perfect agreement between CKMB and troponin I
assay result in patients with chest pain complaints.

Keywords: CKMB, TROPONIN I, ACS, chest pain
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REFERENCES:
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